

Our Future Water Supply

The Willamette Water Supply System Commission (WWSS Commission) is an Oregon intergovernmental entity formed by Tualatin Valley Water District (TVWD), the City of Hillsboro, and the City of Beaverton. The WWSS Commission was formed to own, operate, manage and maintain the WWSS. TVWD has been designated the Managing Agency for the WWSS Commission, and TVWD operates the Willamette Water Supply Program (WWSP) to plan, design, and construct the WWSS. The WWSS will provide an additional resilient water supply for Washington County. When complete, the WWSS will be one of Oregon’s most seismically-resilient water systems—built to better withstand natural disasters, protect public health, and speed regional economic recovery through restoring critical services more quickly. The new system will be completed by 2026.

Willamette Water Supply *Monthly Progress Report*

Our Reliable Water

Month End February 2024

Construction Progresses on Water Treatment Plant (WTP_1.0) Project

A new seismically resilient water treatment plant (WTP) will produce potable water for the Willamette Water Supply System. The WTP is being constructed southwest of the intersection of SW 124th Avenue and SW Tualatin-Sherwood Road in Sherwood. It will initially produce up to 60 million gallons of water per day (mgd) but is designed for expansion to a maximum of 120 mgd. The stable soils on the site mean the WTP will have superior seismic resiliency and will be better able to withstand a catastrophic natural disaster. The new WTP will utilize [multiple treatment steps](#) to meet drinking water standards (learn more [here](#)). Construction on the WTP_1.0 project began in 2022 and is anticipated to be complete in December 2025, with the plant beginning operations in 2026.

WTP_1.0: 2023-2024 Construction Update

Construction continues on the WTP, with significant recent progress bringing the project to approximately 30% complete. Concrete work was a focus area for the project throughout the summer and fall of 2023. Of the 48,000 cubic yards of concrete required to complete the WTP, an estimated 24,200 cubic yards have been successfully poured to date.

Additional progress at the WTP facilities includes:

- **Pipelines:** Installing 490 feet of 66-inch pipe
- **Administration Building:** Completing foundations and starting concrete slab work
- **Ozone Generation:** Ongoing duct bank work
- **Ultraviolet Treatment System:** Installing 84-inch pipe and nearing completion of the building structural steel work
- **Filters:** Building lower gullet (area where water enters and leaves the filter) walls and continuing with filter walls
- **Clearwell (finished water storage):** Progressing shoring for the top slab of the clearwell and completing work on the concrete walls and columns
- **Finished Water Pump Station:** Ongoing work on wet well receiver tank backfill and piping installation
- **Chemical Building:** Continuing construction on the concrete containment walls and tank pads with area concrete nearly complete
- **Equalization Basin:** Filling the basin with water to complete hydrotesting (to verify there are no leaks) and progressing concrete work to near completion
- **Thickened Sludge Pump Station:** Completing concrete slab placement and walls and starting formwork and reinforcement for the concrete deck



Aerial view of construction of the 10-million-gallon finished water storage tank (clearwell)



Aerial view of construction of the flash mixing and ballasted flocculation areas (bottom) and the chemical storage area (top)

Project of the Month

The WWSP is well underway with all projects currently in the construction phase or complete. The photos below highlight the Tualatin Sherwood Area Pipeline Project (PLM_4.0). Additional information on the project is available at <https://www.ourreliablewater.org/tualatin-sherwood-area-pipeline-project/>.



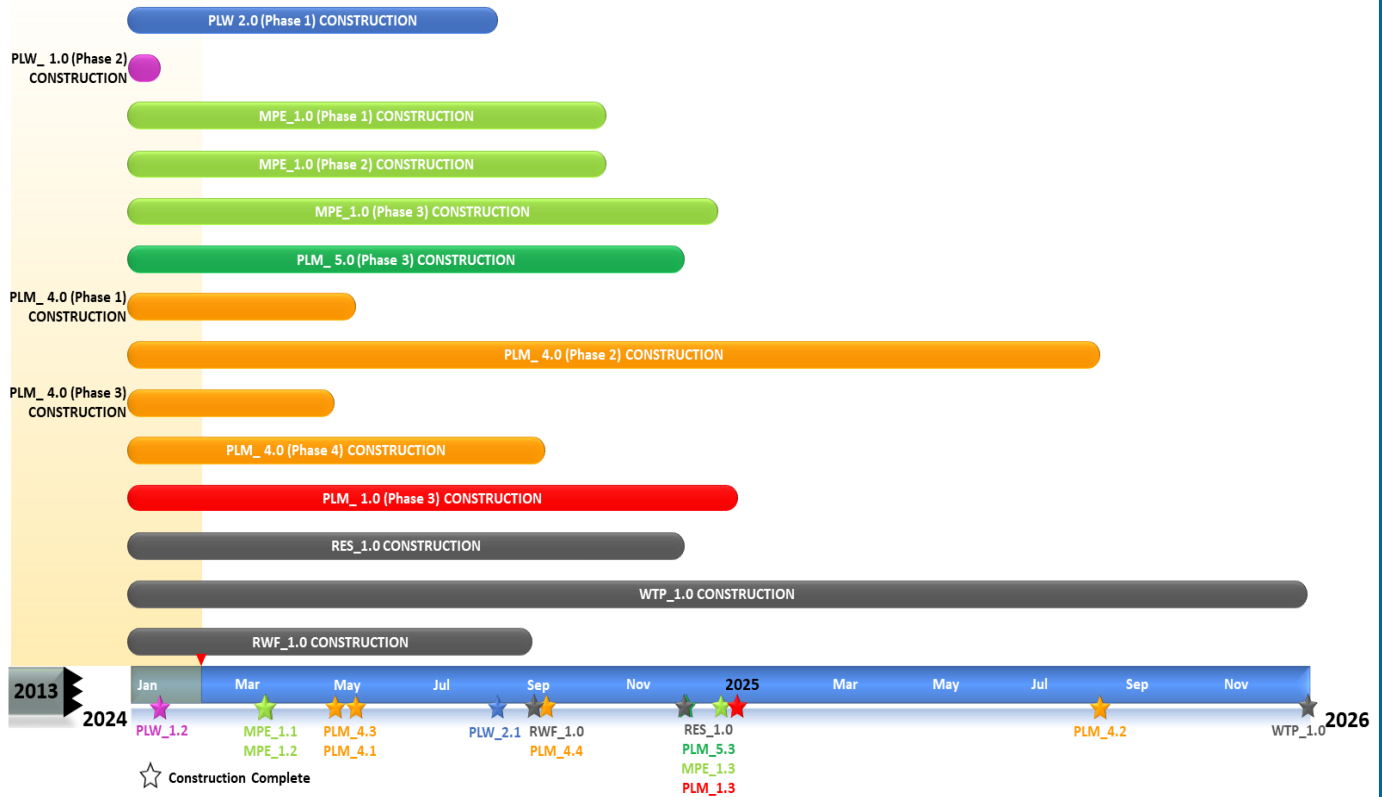
Preparing for tie-in between PLM_4.1 and PLM_4.4



Backfilling after the connection between PLM_4.1 and PLM_4.4

Schedule Summary

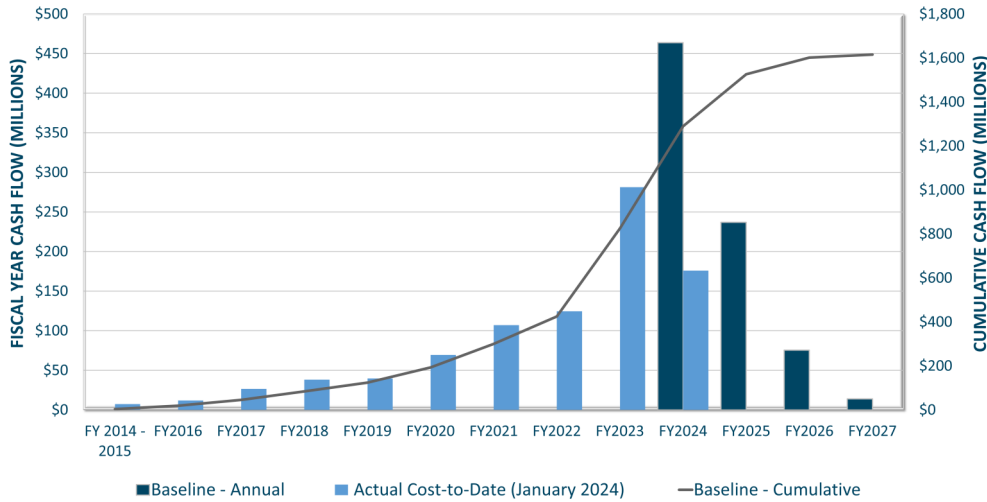
WWSP design and planning began in 2013; the Willamette Water Supply System is expected to be in service by July 2026. Below are the major milestones and activities forecasted from 2024 to 2026*. The WWSP team is committed to on-time delivery. See page 4 for descriptions of the projects referenced below.



*The actual duration of projects continues to be refined and is subject to change.

Forecast Cost Summary

The graph below illustrates the projected WWSP cash flow by fiscal year (FY July 1 to June 30)*. The cumulative cash flow establishes the budgeted \$1.6 billion, which accounts for actual and current projected costs, including projected escalation in the cost of labor, materials, and equipment required to build WWSP projects.



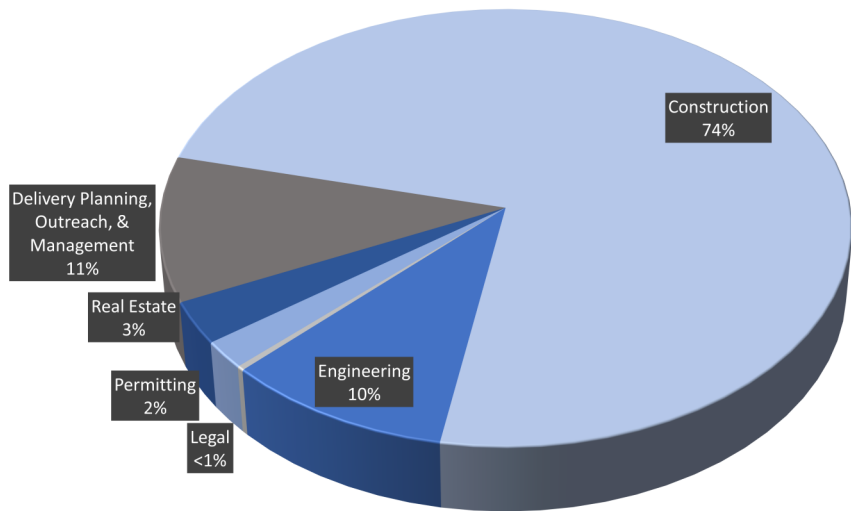
Costs to date for FY 2024 are \$176 million. Cumulative costs are projected to be \$1.2 billion through the end of FY 2024.

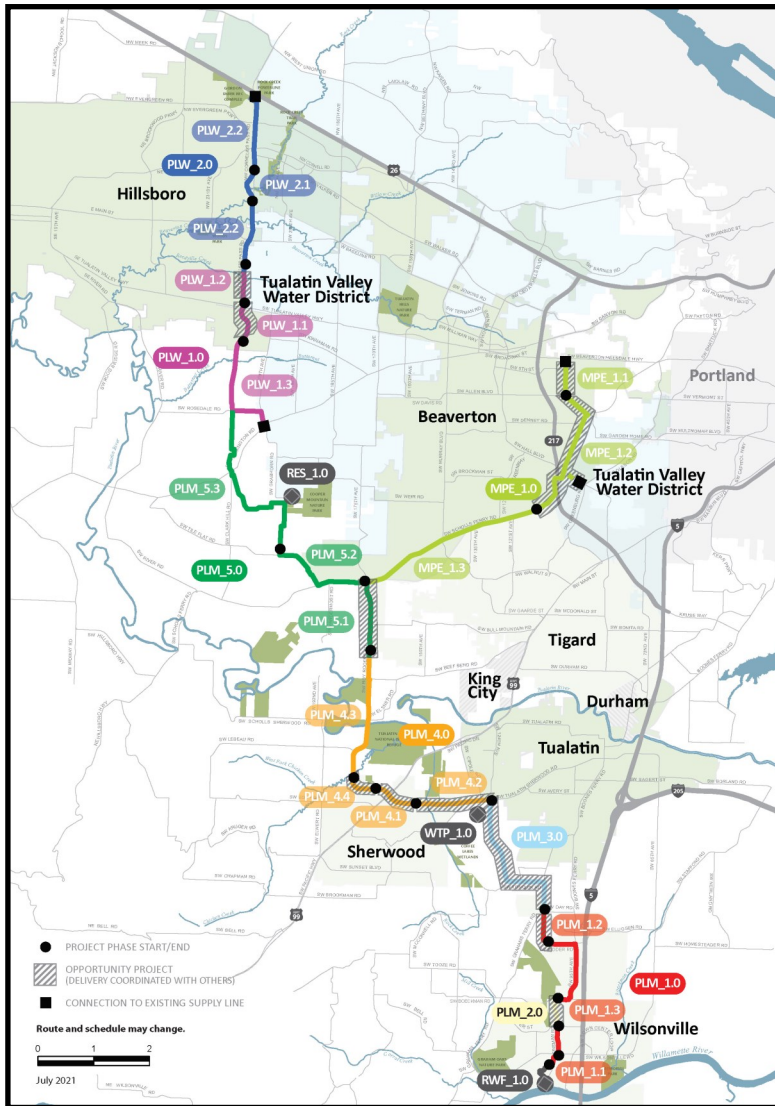
*Current program forecast at completion may vary from baseline cumulative budget due to interim approved changes.

Cumulative Cost Summary

WWSP cumulative costs are tracked and updated monthly. The chart below summarizes the distribution of cumulative costs through January 2024.

Cumulative Water Supply Program costs to date are approximately \$881.8 million, with the majority spent on planning, engineering, and construction.





PLW_2.0 Cornelius Pass Pipeline Project
(Frances Road to Highway 26)

Description: 3.3-mile water pipeline along Cornelius Pass Rd. from Frances St. to Hwy 26 with Phase 1 consisting of 0.7 miles of pipeline beginning at Orenco Woods Nature Park; connects to existing supply lines for City of Hillsboro and TVWD.

Status: Phase 1: Construction; Phase 2: Deferred

PLW_1.0 South Hillsboro Area Pipeline Project
(Farmington Road to Frances Street)

Description: 4-mile water pipeline from SW Farmington Rd. at SW 209th Ave. to Cornelius Pass Rd. at Frances St.

Status: Phase 1: Complete; Phase 2: Construction; Phase 3: Complete

MPE_1.0 Metzger Pipeline East Project
(Roy Rogers Road to Beaverton Hillsdale Hwy)

Description: 7.3-mile water pipeline to be built along SW Scholls Ferry Rd. between SW Roy Rogers Rd. and Allen Blvd.; connects to Metzger service area at SW Oleson Rd. and TVWD's system.

Status: Phase 1: Construction; Phase 2: Construction; Phase 3: Construction

RES_1.0 South Beaverton Area Water Storage Tanks (Storage Tanks)

Description: One 15-million gallon storage tank located on Cooper Mountain.

Status: Construction

PLM_5.0 Scholls Area Pipeline Project
(North of Beef Bend Road to Rosedale Road)

Description: 7-mile water pipeline from SW Roy Rogers Rd. 0.5-mile north of SW Beef Bend Rd. to SW Rosedale Rd.

Status: Phase 1: Complete; Phase 2: Complete; Phase 3: Construction

PLM_4.0 Tualatin-Sherwood Area Pipeline Project
(SW 124th Avenue to north of Beef Bend Road)

Description: 5.3-mile water pipeline from 124th Ave. at SW Tualatin Sherwood Rd. along SW Roy Rogers Rd. to 0.5 miles north of SW Beef Bend Rd.

Status: Phase 1: Construction; Phase 2: Construction; Phase 3: Construction; Phase 4: Construction

PLM_3.0 124th Avenue Partnership Project
(SW 124th Avenue Extension)

Description: 2.7-mile water pipeline from Grahams Ferry Rd. at Day Rd. to 124th Ave. at SW Tualatin Sherwood Rd.

Status: Complete

PLM_2.0 Kinsman Road Partnership Project
(Kinsman Road Extension)

Description: 0.6-mile water pipeline along Kinsman Rd. between Barber St. and Boeckman Rd.

Status: Complete

PLM_1.0 Wilsonville Area Pipeline Project
(WRWTP to Day Road)

Description: 3.3-mile water pipeline from WRWTP to intersection of SW Garden Acres Rd. at Day Rd.

Status: Phase 1: Complete; Phase 2: Complete; Phase 3: Construction

WTP_1.0 Willamette Water Supply System Water Treatment Plant
(Water Treatment Plant (WTP))

Description: 60-million gallons per day water treatment plant (WTP_1.0), including a finished water pump station (FPS_1.0) and a control system (DCS_1.0) located in Sherwood.

Status: Construction (WTP, FPS, DCS)

RWF_1.0 Raw Water Facilities Expansion
(Raw Water Facilities (RWF) Expansion)

Description: Expansion of the existing raw water pump station and intake at the Willamette River WTP (WRWTP) in Wilsonville to 60 million gallons per day of initial capacity for the Willamette Water Supply System.

Status: Phase 1: Complete; Phase 1.5: Complete; Phase 2: Construction

The mid-Willamette River at Wilsonville is the supply source for the WWSS. The system consists of modifying the existing river intake and expanding pumping capacity, building more than 30 miles of drinking water pipeline, reservoir storage facilities on Cooper Mountain, and a new WTP in Sherwood.

For more information about the WWSP, visit www.ourreliablewater.org or call 503.941.4570.